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MERCHANT & GOULD (MICROSOFT)
P.O. BOX 2903
MINNEAPOLIS, MN 55402-0903

EXAMINER

JACKSON, JAKIEDA R

ART UNIT	PAPER NUMBER
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2626

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/779,837	Applicant(s) FEINBERG ET AL.	
	Examiner JAKIEDA R. JACKSON	Art Unit 2626	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-21 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 17 February 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____. |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. **Claims 1-3 and 5-9** are rejected under 35 U.S.C. 103(a) as being unpatentable over Banerjee et al. (PGPUB 2007/0156394), hereinafter referenced as Banerjee in view of Robertson et al. (PGPUB 2006/0277213), hereinafter referenced as Robertson.

Regarding **claim 1**, Banerjee discloses a method of operating a jump bar of a contact manager, comprising the steps of:

assigning a character code to a button of the jump bar (number items consistent with the selected characters; paragraph 0031), wherein the character code is uniquely associated with an alphanumeric character of a character set having a single character code uniquely associated with each alphanumeric character of a plurality of alphanumeric characters from a plurality of languages (different languages; paragraph 0037); and

displaying the retrieved contact information in a window of the contact manager (characters presented in the graphical user interface; paragraph 0007), but does not specifically teach retrieving contact information from a contacts information database by

Art Unit: 2626

comparing the assigned character code and the first alphanumeric character of the last names of contacts having associated contact information previously stored in the contacts information database.

Robertson discloses a method of retrieving contact information from a contacts information database (address book interface) by comparing the assigned character code (letter) and the first alphanumeric character of the last names of contacts (last name) having associated contact information previously stored in the contacts information database (paragraphs 0077-0083 with figure 10), to easily locate and share personal information with other users.

Therefore, it would have been obvious to one of ordinary skill of the art to modify Banerjee's method as described above, to conduct a search of contacts of the respective user and the search may be limited in scope to users that satisfy one or more particular search criteria, such as users that reside in a particular region or are affiliated with a particular group (paragraph 0012), as taught by Robertson.

Regarding **claim 2**, Banerjee discloses a method wherein the method further comprises a step of selecting the character code assigned to the button of the jump bar based at least in part upon the usage frequency (frequency index) of the associated alphanumeric character in the respective language thereof (paragraphs 0013 and 0023).

Regarding **claim 3**, Banerjee discloses a method wherein the method further comprises a step of determining respective weights (value) for the alphanumeric characters of the plurality of alphanumeric characters (paragraph 0023).

Regarding **claim 5**, Banerjee discloses a method wherein the assigned character code is a first character code and the button is a first button of the jump bar, wherein the first character code is associated with a first language, and wherein the method further comprises a step of assigning a second character code associated with a second language to a second button of the jump bar (paragraphs 0031 and 0037).

Regarding **claim 6**, Banerjee discloses a method wherein the assigned character code is a first character code associated with a first language, and wherein the method further comprises a step of assigning a second character code associated with a second language to the button of the jump bar (paragraphs 0031 and 0037).

Regarding **claim 7**, Banerjee discloses a method wherein the plurality of languages includes an Indic language (Indic languages; paragraph 0037).

Regarding **claim 8**, Banerjee discloses a method of assigning character codes, but does not specifically teach wherein the character code is a first character code, and wherein the method further comprises a step of assigning a second character code to the button of the jump bar in response to re-sizing of the window of the contact manager by a user.

Robertson discloses a method wherein the character code is a first character code, and wherein the method further comprises a step of assigning a second character code to the button of the jump bar in response to re-sizing of the window of the contact manager by a user (figure 10), to easily locate and share personal information with other users.

Therefore, it would have been obvious to one of ordinary skill of the art to modify Banerjee's method as described above, to conduct a search of contacts of the respective user and the search may be limited in scope to users that satisfy one or more particular search criteria, such as users that reside in a particular region or are affiliated with a particular group (paragraph 0012), as taught by Robertson.

Regarding **claim 9**, Banerjee discloses a method wherein the first character code has a first numeric value, wherein the second character code has a second numeric value, and wherein the second numeric value is numerically greater than the first numeric value (highest value; paragraph 0023).

3. **Claim 4** is rejected under 35 U.S.C. 103(a) as being unpatentable over Banerjee in view of Robertson and in further view of James et al. (PGPUB 2005/0198023), hereinafter referenced as James.

Regarding **claim 4**, Banerjee in view of Robertson discloses a method of data entry for Indic languages, but does not specifically teach wherein the step of displaying the retrieved contact information includes displaying retrieved contact information in groups corresponding to the languages of the retrieved contact information.

James discloses a method wherein the step of displaying the retrieved contact information (address book) includes displaying retrieved contact information in groups corresponding to the languages of the retrieved contact information (paragraphs 0008-

Art Unit: 2626

0009 and 0029-0033), to allow a user to choose the intended item if more than one interpretation is possible.

Therefore, it would have been obvious to one of ordinary skill of the art to modify Banerjee in view of Robertson's method as described above, to simultaneously use two or more languages in a single message or entry field (paragraph 0008), as taught by James.

4. **Claims 10-15** are rejected under 35 U.S.C. 103(a) as being unpatentable over Banerjee in view of Robertson and in further view of Flazsa et al. (PGPUB 2003/0233340), hereinafter referenced as Flazsa.

Regarding **claim 10**, Banerjee discloses system, comprising:

wherein each button is associated uniquely with a character code corresponding to an alphanumeric character of a character set (characters) having a single character code uniquely associated with each alphanumeric character of a plurality of languages (items consistent with the selected characters; paragraph 0031); and

a computer software routine (application software) including a plurality of executable instructions (paragraphs 0006-0011), said computer software routine being operable to uniquely associate buttons of said plurality of buttons with character codes corresponding to alphanumeric characters of said character set (number of items consistent with selected characters; paragraph 0031), but does not specifically teach a plurality of buttons displayable in a graphical user interface window of a contact

Art Unit: 2626

manager and a button data table including a character code and associated weight for each of a plurality of alphanumeric characters that are assignable to the buttons of the plurality of buttons.

Robertson discloses a system comprising a plurality of buttons (buttons) displayable in a graphical user interface window of a contact manager (figure 10 with paragraphs 0077-0082), to easily locate and share personal information with other users.

Therefore, it would have been obvious to one of ordinary skill of the art to modify Banerjee's method as described above, to conduct a search of contacts of the respective user and the search may be limited in scope to users that satisfy one or more particular search criteria, such as users that reside in a particular region or are affiliated with a particular group (paragraph 0012), as taught by Robertson.

Banerjee in view of Robertson discloses a contact manager system, but does not specifically disclose a character code and associated weight for each of a plurality of alphanumeric characters.

Flasza discloses a system wherein a character code (character code) and associated weight (weight) for each of a plurality of alphanumeric characters (figure 2 with paragraphs 0019-0022), for sorting data.

Therefore, it would have been obvious to one of ordinary skill of the art to modify Banerjee in view of Robertson's system as described above, to allow all character strings to be distinguished from one another and organized in a desirable sequence (paragraph 0007), as taught by Flasza.

Regarding **claim 11**, it is interpreted and rejected for similar reasons as set forth in claim 10. In addition, Robertson discloses a system wherein said computer software routine is further operable to update said graphical user interface window of said contact manager with contact information (figure 10).

Regarding **claim 12**, Banerjee discloses a system wherein said weight for each of said plurality of alphanumeric characters is based at least in part on the usage frequency (frequency index) of each said alphanumeric character within the language thereof (paragraph 0013 and 0023).

Regarding **claim 13**, Banerjee discloses a system wherein said computer software routine is operable to uniquely associate a character code of a first alphanumeric character of a first language with a first button of said plurality of buttons and to uniquely associate a character code of a second alphanumeric character of a second language with a second button of said plurality of buttons (paragraph 0031 and 0037).

Regarding **claim 14**, Banerjee discloses a system wherein said computer software routine is operable to uniquely associate a character code of a first alphanumeric character of a first language with a button of said plurality of buttons and to uniquely associate a character code of a second alphanumeric character of a second language with said button of said plurality of buttons (paragraphs 0031 and 0037).

Regarding **claim 15**, Banerjee discloses a system wherein said plurality of languages include at least one Indic language (Indic language; paragraph 0037).

Art Unit: 2626

5. **Claims 16 and 18-20** are rejected under 35 U.S.C. 103(a) as being unpatentable over Flasza in view of Robertson.

Regarding **claim 16**, Flasza discloses a method of operating a jump bar of a contact manager, comprising the steps of:

associating a weight (weight) with each character code (character code) of a plurality of character codes corresponding to respective alphanumeric characters of a language, wherein each character code of the plurality of character codes uniquely (unique number) corresponds in a one-to-one relationship to an alphanumeric character of a character set representing a plurality of alphanumeric characters of a plurality of languages, wherein the character codes associated with each language of the plurality of languages are arranged as respectively contiguous ranges of numbers (paragraph 0020);

selecting character codes from the plurality of character codes for association with respective rows of a plurality of rows of a table (figure 1);

storing the selected character codes (code point) and associated weights in the table with each row of the table storing a character code and associated weight (weight; figures 2 and 3), but does not specifically teach identifying character codes of the selected character codes for display on buttons of a jump bar of a contact manager; and, displaying the alphanumeric characters corresponding to the identified character codes on respective buttons of the jump bar.

Robertson teaches a method of identifying character codes of the selected character codes for display on buttons of a jump bar of a contact manager; and, displaying the alphanumeric characters corresponding to the identified character codes on respective buttons of the jump bar (paragraphs 0077-0083 with figure 10), to locate and share personal information with other users.

Therefore, it would have been obvious to one of ordinary skill of the art to modify Flasz's method as described above, to conduct a search of contacts of the respective user and the search may be limited in scope to users that satisfy one or more particular search criteria, such as users that reside in a particular region or are affiliated with a particular group (paragraph 0012), as taught by Robertson.

Regarding **claim 18**, Flasz discloses a method wherein the step of selecting character codes includes selecting character codes from the plurality of character codes (character code) based at least in part on the weights (weight) associated with the character codes (paragraph 0019-0022).

Regarding **claim 19**, Flasz discloses a method wherein the selected character codes have associated weights which are greater than the associated weights (weight) of other character codes (character code) of the plurality of character codes (paragraph 0019-0022).

Regarding **claim 20**, it is interpreted and rejected for similar reasons as set forth in claim 16. In addition, Flasz discloses a method wherein the step of identifying character codes includes identifying character codes (character code) based at least in

Art Unit: 2626

part on the weights (weight) associated with the character codes (paragraph 0019-0022).

6. **Claims 17 and 21** is rejected under 35 U.S.C. 103(a) as being unpatentable over Flaszka in view of Robertson and in further view of Banerjee.

Regarding **claim 17**, Flaszka in view of Robertson discloses a method of operating a contact manager, but does not specifically teach assigning weights based at least on the determined frequency.

Banerjee discloses a method wherein the step of associating a weight includes determining the frequency (frequency) with which an alphanumeric character (character) is used in the language thereof and assigning the weight based at least on the determined frequency (frequency; paragraph 0023), such that the user is presented with compatible items.

Therefore, it would have been obvious to one of ordinary skill of the art to modify Flaszka in view of Robertson's method as described above, such that the user is presented with compatible items having the highest frequency (paragraph 0013), as taught by Banerjee.

Regarding **claim 21**, Flaszka in view of Robertson discloses a method of operating a contact manager, but does not specifically teach a method wherein the character set includes the Unicode character set.

Art Unit: 2626

Banerjee discloses a method wherein the character set includes the Unicode character set (Unicode; paragraphs 0010-0011), to understand languages which are written using Indic fonts.

Therefore, it would have been obvious to one of ordinary skill of the art to modify Flasz in view of Robertson's method as described above, to enable the input of text in an Indic language into a computer apparatus (paragraph 0001-0002), as taught by Banerjee.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAKIEDA R. JACKSON whose telephone number is (571)272-7619. The examiner can normally be reached on Monday-Friday from 5:30am-2:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Hudspeth can be reached on 571-272-7843. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2626

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/David R Hudspeth/
Supervisory Patent Examiner, Art Unit 2626

JRJ
September 12, 2008